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	Application No.	Applicant(s)	•
Notice of Allowability	10/768,573	GUALANDRI ET AL	
	Examiner	Art Unit	
	Jung (John) Hur	2824	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOS 85) or other appropriate of RIGHTS. This application	SED in this application. If not include ommunication will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>Preliminary Amen</u>	dments, filed 29 January	2004 and 17 August 2004.	
2. The allowed claim(s) is/are <u>43-63 and 65-67</u> .			
3. $\boxtimes$ The drawings filed on <u>29 January 2004</u> are accepted by	y the Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priorit</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents h</li> </ul>		n)-(d) or (f).	٠
□ Certified copies of the priority documents h	· ·	lication No	
Copies of the certified copies of the priority	• • •		tion from the
International Bureau (PCT Rule 17.2(a)).	documents have been re	ceived in this national stage applica	uon nom me
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDC THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			quirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which	ibmitted. Note the attache gives reason(s) why the o	d EXAMINER'S AMENDMENT or N ath or declaration is deficient.	OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") i	must be submitted.		
(a) ☐ including changes required by the Notice of Draftsp		Review ( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examir Paper No./Mail Date	ner's Amendment / Comm	ent or in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such			back) of
7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREME	eposit of BIOLOGICAL I	MATERIAL must be submitted. NOF BIOLOGICAL MATERIAL.	Note the
Attachment(s)			
Notice of References Cited (PTO-892)	5. Notice	of Informal Patent Application (PTC	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-94		ew Summary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/S		r No./Mail Date iner's Amendment/Comment	
Paper No./Mail Date 1/29/04  4. Examiner's Comment Regarding Requirement for Depos	sit 8. 🛛 Exam	iner's Statement of Reasons for Allo	wance
of Biological Material	9. 🛛 Other	search history.	
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		RICHARD ELMS SUPERVISORY PATENT EXAMINE TECHNOLOGY CENTER 2800	R
U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)	Notice of Allowability	Part of Paper No./M	1ail Date 2004102

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#### **DETAILED ACTION**

# Information Disclosure Statement

Acknowledgment is made of applicant's Information Disclosure Statement (IDS) Form
 PTO-1449, filed 29 January 2004. The information disclosed therein was considered.

## **Preliminary Amendments**

2. Acknowledgment is made of applicant's Preliminary Amendment and Supplemental Preliminary Amendment, filed 29 January 2004 and 17 August 2004, respectively. The changes and remarks disclosed therein were considered.

Per these amendments, claims 43-63 and 65-67 are pending in the application.

## **Drawings**

3. The replacement drawing sheets for Figures 1-7 were received on 29 January 2004. The drawings on these replacement sheets are acceptable.

## **EXAMINER'S AMENDMENT**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

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5. Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael Rahman on 28 October 2004.

6. The application has been amended as follows:

In the amendment to the specification, filed 29 January 2004, in the paragraph under the heading "CROSS-REFERENCE TO RELATED APPLICATION," a phrase --, now U.S. Patent No. 6,714,458-- has been inserted after "2002" to update the status of the parent application.

In claim 46, "claim 43" has been replaced with --claim 45-- to correct the antecedent basis problem.

In claim 47, "claim 43" has been replaced with --claim 45-- to correct the antecedent basis problem.

In claim 48, "claim 43" has been replaced with --claim 46-- to correct the antecedent basis problem.

In claim 50, "claim 43" has been replaced with --claim 49-- to correct the antecedent basis problem.

In claim 51, "claim 43" has been replaced with --claim 49-- to correct the antecedent basis problem.

In claim 52, "claim 43" has been replaced with --claim 50-- to correct the antecedent basis problem.

In claim 56, line 5, "a n-channel threshold voltage" has been replaced with --an n-channel threshold voltage--.

In claim 61, "discharge circuit" has been replaced with --flash memory device-- to correct the inconsistent preamble.

In claim 62, "discharge circuit" has been replaced with --flash memory device-- to correct the inconsistent preamble.

In claim 62, before "further", --wherein the discharge circuit is-- has been inserted.

# Allowable Subject Matter

7. Claims 43-63 and 65-67 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 43, 56, 59 and 63, the prior arts of record do not disclose or suggest a discharge circuit or a flash memory device or a method as recited in claim 43, 56, 59 or 63, and particularly, coupling the array source to the p-well drive and discharging the p-well drive and the array source to the first voltage level (specifically, an n-channel threshold voltage) in the first mode (both in response to the first discharge signal), and discharging the p-well and the array source to the second voltage level (specifically, ground) in the second mode (in response to the second discharge signal).

## Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tanzawa et al. (U.S. Pat. No. 5,828,621) discloses an erase operation.

Jinbo (U.S. Pat. No. 5,907,506) discloses a discharge circuit for erase operations.

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Chung (U.S. Pat. No. 6,031,774) discloses a discharge circuit for erase operations.

Kaya et al. (U.S. Pat. No. 6,646,925) discloses a discharge method after an erase operation.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung (John) Hur whose telephone number is (571) 272-1870. The examiner can normally be reached on M-F 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jhh